

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference G5467 PCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2004/008539	International filing date (day/month/year) 29/07/2004	(Earliest) Priority Date (day/month/year) 05/08/2003
Applicant UMICORE AG & CO. KG		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the drawings,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/008539

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 B01D53/94 F01N3/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01D F01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 984 142 A (TOYOTA JIDOSHA KK) 8 March 2000 (2000-03-08)	1,2,5,9
A	paragraph '0014! - paragraph '0016!; claims; figure 2	3,4,6-8, 10,11
X	US 5 492 679 A (FRANK AMENT ET AL.) 20 February 1996 (1996-02-20)	1
A	column 3, line 35 - column 4, line 2; figures 2,3	2-11
A	WO 01/12320 A (JOHNSON MATTHEY PUBLIC LTD COMP) 22 February 2001 (2001-02-22) claims; figure 1	1-11
A	DE 198 20 828 A (DAIMLERCHRYSLER) 18 November 1999 (1999-11-18) cited in the application claims	1-11
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

13 October 2004

Date of mailing of the international search report

20/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Bogaerts, M

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/008539

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 773 354 A (TOYOTA JIDOSHA KK) 14 May 1997 (1997-05-14) cited in the application claims -----	1-11
A	EP 1 033 161 A (DORNIER GMBH) 6 September 2000 (2000-09-06) claims; figures 1,2 -----	1-11
A	EP 1 147 802 A (KEMIRA METALKAT OY) 24 October 2001 (2001-10-24) -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/008539

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0984142	A	08-03-2000	DE 69824847 D1	05-08-2004
			EP 0984142 A1	08-03-2000
			JP 3248187 B2	21-01-2002
			US 6367246 B1	09-04-2002
			WO 9848153 A1	29-10-1998
US 5492679	A	20-02-1996	DE 19539728 A1	30-04-1997
WO 0112320	A	22-02-2001	EP 1133355 A1	19-09-2001
			WO 0112320 A1	22-02-2001
			US 2004175315 A1	09-09-2004
			US 6753294 B1	22-06-2004
DE 19820828	A	18-11-1999	DE 19820828 A1	18-11-1999
			DE 59900369 D1	06-12-2001
			EP 0957242 A2	17-11-1999
			JP 3108919 B2	13-11-2000
			JP 2000027634 A	25-01-2000
			US 6176079 B1	23-01-2001
EP 0773354	A	14-05-1997	JP 9133032 A	20-05-1997
			DE 69616235 D1	29-11-2001
			DE 69616235 T2	27-06-2002
			EP 0773354 A1	14-05-1997
			US 5782087 A	21-07-1998
EP 1033161	A	06-09-2000	DE 19908023 A1	31-08-2000
			DE 59909112 D1	13-05-2004
			EP 1033161 A1	06-09-2000
EP 1147802	A	24-10-2001	FI 20000854 A	11-10-2001
			EP 1147802 A1	24-10-2001
			US 2002013226 A1	31-01-2002